





TEACHER GUIDE

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STUDENT HANDOUTS

Panding Comprehension

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✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5775 Conservation: Waterway Habitat Resources
- Enter pass code CC5775D for Activity Pages

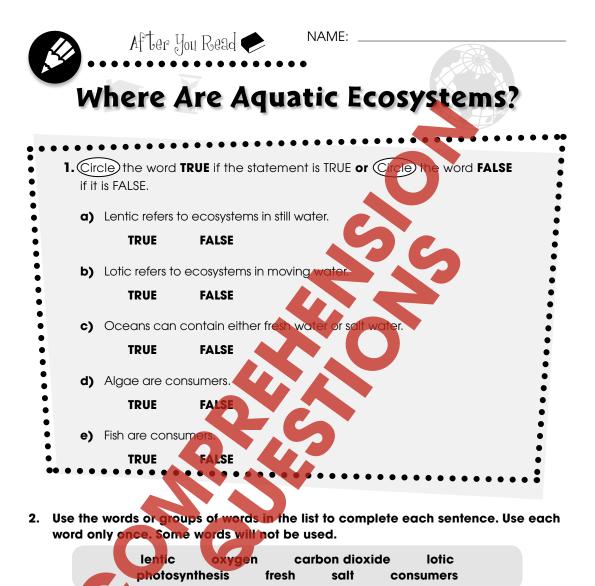




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Crayfish are _

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__ ecosystems.

 $oldsymbol{ol}}}}}}}}}}}$

e) If a small puddle of fresh water contains organisms, it is a ____

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d) The Great Lakes contain _____ water.





NAME:

Where Are Aquatic Ecosystems?



quatic ecosystems were the first ecosystems on Earth.

These first ecosystems developed in the ocean several billion years before land ecosystems appeared. These early marine ecosystems were made up only of plants that could use **photosynthesis** to harness energy directly from the sun.



Oxygen gas is one of the products of photosynthesis. When early marine plants had added enough oxygen to the atmosphere, Earth's oceans could support both plant and animal life. This shows how the parts of an ecosystem fit together. Plants get energy from the sun and transfer it to animals. Plants also provide the oxygen that animals need. When animals use the energy in plants, they produce **carbon dioxide**, which is a resource that plants need.

Organisms that live in marine ecosystems are adapted to live in **salt water**. Any pody of water that is more than 1% salt is considered salt water. In addition to the ocean, this includes some inland salt lakes. Water that is less than 1% salt is classified as fresh water.

All ocean marine ecosystems are interconnected because all oceans are connected. Ocean ecosystems do vary from place to place. The differences depend mostly on temperature and depth. Marine ecosystems cover much more area and have much more volume than freshwater ecosystems. Oceans cover 71% of Earth's surface and contain 97% of Earth's water.

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NAME:

After You Read 🔷



Where Are Aquatic Ecosystems?

3. Answer the questions in complete sentences.

a) Explain why all ocean ecosystems are interconnected

Identify two producers and three consumers in	a frest	nwater	lake eco

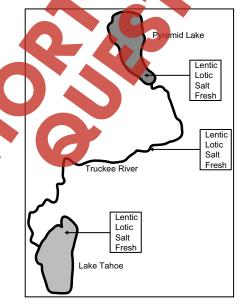
b) Identify two producers and three consumers in a freshwater lake ecosystem.

Producers:

Consumers: _

Extensions & Applications

Rough Draft Worksheet



The map shows three bodies of water: Lake Tahoe, Pyramid Lake, and the Truckee River. The Truckee River begins at Lake Tahoe and ends at Pyramid Lake. Show the characteristics of each body of water by circling two words in each box.

See page 13 for Final Version Worksheet.

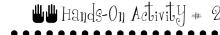
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Activity Two

Visit an Aquarium

Learn about aquatic ecosystems at a public aquarium. The tanks filled with aquatic life in an aquarium are not the same as a wild aquatic ecosystem, but they have some similarities. The advantage an aquarium has over a wild ecosystem is that you will probably be able to find someone to answer your questions. Be sure to take a written list of questions with you. When you visit, you may want to walk around and enjoy the exhibits fir

You may be able to get a guide booklet at the entrance that will answer some of your questions. Most aquariums also have information posted next to each tank. Now look at your list and mark any of your questions that are still unanswered. Try to find someone on the aquarium staff, like a docent or a guide, who would like to give you more information.

Here are some suggested questions. Feel free to add your own questions to the list.

- 1. Which tanks have salt water and which have fresh water?
- 2. Which exhibits are most like a wild ecosystem?
- 3. Do all the consumers have to be given food, or do some tanks have their own producers?
- 4. Do any predators have their prey in the tank?
- 5. Is all the oxygen supplied by plants?
- Are any of the animals extinct in the wild?





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Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

abiotic biotic fresh (water) greenhouse gas acid rain carbon dioxide adapt debris invertebrates estuary lotic algae aquatic fish (ladder) marine

overfishing oxygen photosynthesi Inoff

salt (water) spawn system vertebrates

Α	V	Е	R	T	Е	В	R	Α	T	E	S	Α	В	С
I	Q	S		Н	Α	Ν	S	G	A	中	E	S	S	D
N	K	U	Α	D	E	L	E	G	7	0	T	I	С	М
V	T	S	Α	J	R	Q		4	Р	0	S	R	Ν	0
Е	J	Р	Υ	Τ	Е	Α	Δ	C	I	Е	Υ	В	Ν	V
R	T	Χ	>	W		S	R	1	Н	S	Χ	Ε	ı	Е
Т	0	D	\circ	В	A	0	U	T	W	Z	Н	D	Α	R
Е	D	_	Χ	0	4	P	Ν	0	В	R	Α	С	R	F
В	Е	Μ	Ш	F	S	Υ	S	ı	Н	F	0	G	D	I
R	М		0	×	S	Р	М	В	J	Z	-	Ι	-	S
Α	Z	4	9	0	Α	Α	Р	Α	S	Ø	Е	R	\circ	Н
Т	В	8	۲	V	R	>	L	Ι	U	T	S	Е	Α	I
Е	Χ	0	Ν		Υ	Z	М	T	W	Χ	Υ	Z	R	Ν
S	Н	D	Ν	С	В	Е	S	T	U	Α	R	Υ	Α	G
Р	Е	Е	F	G	R	U	Ν	0	F	F	R	Е	S	Н

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Part C

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Comprehension Quiz

Answer each question in complete sentences.

Explain why an ecosystem is a system.



Explain how oxygen (O2) and carbon dioxide (CO2) are exchanged between plants and animals in an ecosystem.



Explain how burning fossil fuels has caused ocean temperature to rise. 3.



Why does an increase in the amount of dissolved carbon dioxide in the ocean endanger coral reefs?



Describe **one** thing individuals can do to help protect aquatic ecosystems.



SUBTOTAL:

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Invasive Aquatic Species to North America



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Purple Loostrife

Goby

Round

Asian

25



Where Are Aquatic Ecosystems?

- 3. Answer the questions in complete sentences.
 - **a)** Explain why all ocean ecosystems are interconnected.

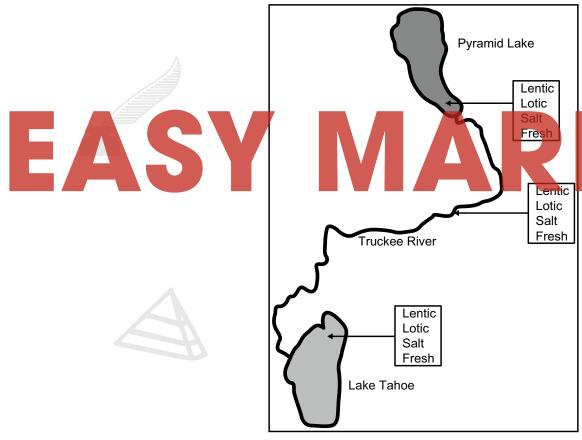
b) Identify two producers and three consumers in a freshwater lake ecosystem.

Producers: _____

Consumers: ____

Extensions & Applications

Rough Draft Worksheet



The map shows three bodies of water: Lake Tahoe, Pyramid Lake,

River. The Truckee
River begins at
Lake Tahoe and
ends at Pyramid
Lake. Show the
characteristics
of each body of
water by circling
two words in each
box.

See page 13 for Final Version Worksheet.

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3.

- a) All oceans are connected.
- b) (Producers) "algae, water plants" (Consumers)
 Any three of the following. (Answers will vary): fish, frogs, sects, crayfish, phibians, eptiles, etc.

Extensions & Applications

Lake Tahoe: lentic, fresh

Truckee River: lotic, fresh

Pyramid Lake: lenti



Crossword Puzzle!

